# NATURAL SLATE CHALKBOARDS

*. . . because young eyes deserve the best*

**long wearing dependability**
**excellent writing qualities**
**low maintenance cost**

*natural slate . . . 500 million years in the making*

**NATURAL SLATE BLACKBOARD CO.**
MEMBER-PENNSYLVANIA SLATE PRODUCERS GUILD

*pen argyl, pennsylvania*

# SPECIFICATIONS

## *for slate chalkboard installations*

**Work Required**—This contractor shall furnish and install Natural Slate Chalkboards (specify height: 3 ft., 3 ft. 6 in., and 4 ft. stock sizes) in all classrooms and other portions of the building as shown or noted on the plans, sections or detail drawings.

**Quality and Finish**—Chalkboards shall be of selected natural slate as quarried in the U. S. A., free from ribbons and physical properties that would impair its functional use and durability as a writing surface.

The exposed face shall be surfaced to its natural plane, honed to a smooth finish for easy writing and erasing.

**Sizes and Lengths**—Slate to be not less than ¼ in. nor more than ⅜ in. thick. A maximum deviation of 1/16 in. from this thickness will be permitted, when an average thickness of at least ¼ in. is maintained, except that double surfaced slate shall be uniform thickness.

The lengths of slabs in each space shall be in accordance with the U. S. Department of Commerce Simplified Practice Recommendations No. 15, as follows: Up to 5 ft., one slab; over 5 ft., but not exceeding 9 ft., two slabs; over 9 ft., but not exceeding 13 ft. 6 in., three slabs; over 13 ft. 6 in., but not exceeding 18 ft., four slabs; over 18 ft., but not exceeding 22 ft. 6 in., five slabs; over 22 ft. 6 in., but not exceeding 27 ft., six slabs.

Joints shall be symmetrically spaced, i.e., slabs forming each space shall be approximately equal in length with a variation not greater than 3 in. in either direction of what would be equal spacing. Allowance of ¼ in. clearance shall be made at trim in both length and width for fitting.

**Spotting Compound**—After plastered surfaces have hardened and immediately before setting the slate, "PYRAMID" SPOTTING and BEDDING COMPOUND or other approved fibrous, bituminous, compound shall be applied. "Spots" approximately ¼ in. thick and 4 to 6 in. in diameter shall be placed at intervals not exceeding 18 in. in each direction on back of each slab, after which each slab of the chalkboard shall be pressed into place forming a solid continuous, even plane, jointed between each slab.

**Cement Joints**—A thin strip of "PYRAMID" Jointing Compound shall be applied to the adjoining joint edges of each slab to form as tight and invisible joint as possible.

**Rubbing Joints**—Upon completion of setting, uneven joints shall be thoroughly honed and finished so that the space has the appearance of a continuous smooth plane.

**Final Cleaning**—All slate chalkboards shall be cleaned and left ready for use.

## *correlative provisions*

### Include Under Carpentry Work

**Grounds**—This contractor shall furnish and securely fasten kiln-dried wood "ground" strips (¾ in. thick or other thickness according to plastering) in accordance with detailed drawings at top, bottom and ends of all spaces to be occupied by blackboards. Grounds shall be set to accurate levels and true planes.

**Trim**—Wood trim furnished by the millman (see Mill Work) shall be securely fastened to "ground" strips by the carpenter. Trim to include chalk trough and apron as detailed. (If wire covers are to be installed in chalk troughs, specify here.) After Blackboards are installed, a quarter round shall be securely fastened to surrounding trims and chalk trough, firmly holding slate in place. Carpenter contractor will be responsible for any damage to Blackboards in so doing.

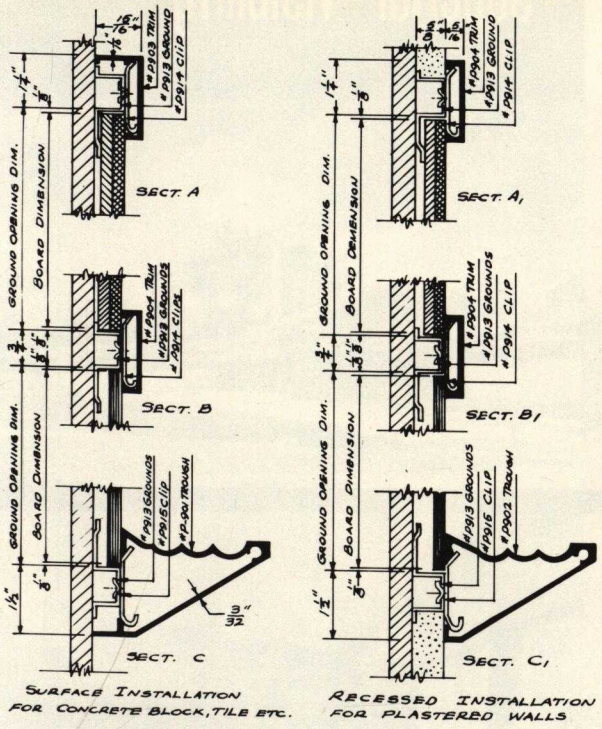
### Include Under Plastering Work

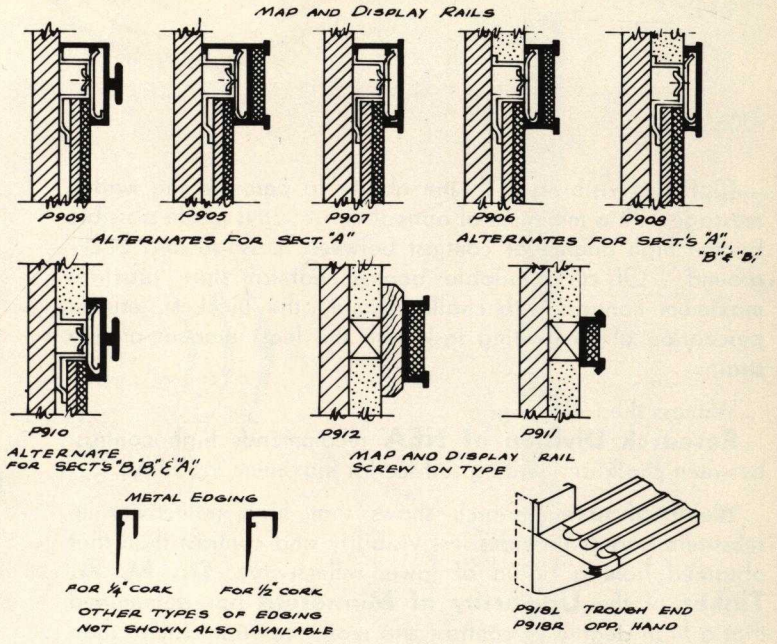
This contractor shall plaster all spaces back of Blackboards with a scratch or brown coat, floated to a true plane and in perfect alignment within ¼ in. of the face of ground strips (Carpentry Work). Unfurred outside walls shall be given two coats of damp-proof paint before plastering.

### Include Under Painting

All Blackboard trim (except inner loose quarter round) shall be completely finished before Blackboards are installed. Inner loose quarter round shall be finished (all except last coat, which shall be applied after quarter round is attached).

Painting contractor will be responsible for any damage to Blackboards by varnish or other painter's finish.




A COMPLETE LINE OF ACCESSORIES, MAP HOOKS, ROLLER BRACKETS, AND FLAG HOLDERS AVAILABLE FOR MAP AND DISPLAY RAIL SHOWN ABOVE.

# *correlative provisions for metal trim*

Metal trim furnished by either the slate contractor, or applicable contractor prevailing for the job, shall be aluminum with dull alumilite finish, as per detail illustrated, or approved equal. All trim and chalk trough shall be in single lengths insofar as possible, and shall be straight, true, and free of defects.

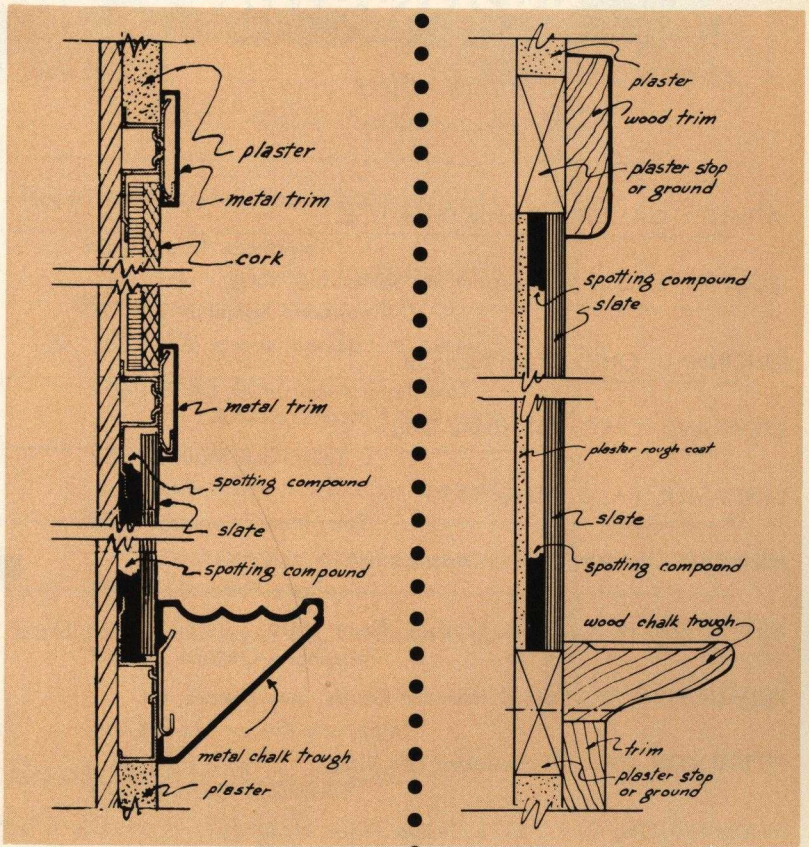
Sliding map hooks and map winders for map and display rail, together with flag holders, shall be furnished as specified. Specify (quantities).

Furnish and erect continuous metal grounds in true alignment, securely fastened by approved attachments for either plastered or unplastered walls.

Trim and chalk trough clips and clamps of approved sizes, thicknesses, and spacings shall be secured to grounds in such a manner to receive trim and to provide permanent alignment of chalkboard face.

Samples of metal trim, chalk trough, grounds, clips, and clamps shall be submitted for approval prior to starting the erecting work.

After chalkboards and corkboards have been installed, the chalk trough and metal trim shall be attached to the clips and clamps in an approved workmanlike manner, subject to the approval of the architect.




**METAL TRIM** **WOOD TRIM**

*natural slate provides . . .*

# superior visibility

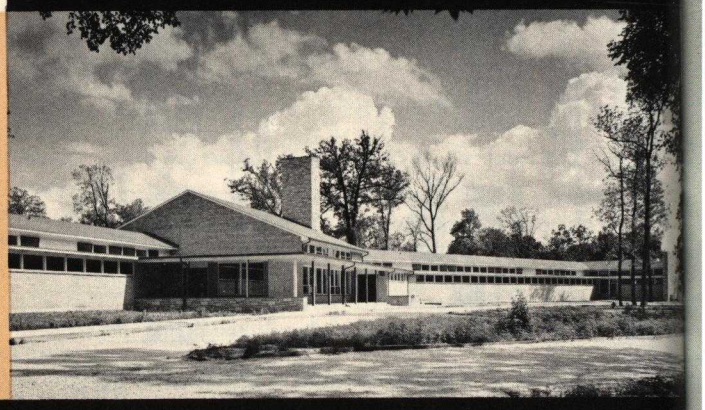
Optimum visibility . . . the ability to perceive the written message with a minimum of optical effort . . . is made possible by the high degree of contrast between message and background. Of all available boards, natural slate provides maximum contrast with chalk, assuring the quickest, easiest perception of the writing task with the least amount of eye strain.

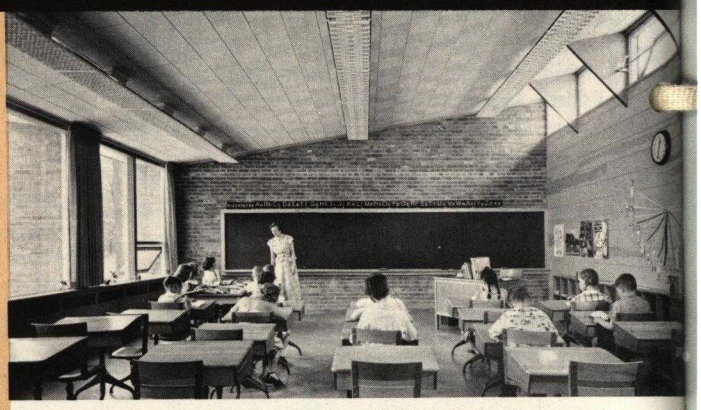
Witness the following:

**Research Division of NEA** recommends high contrast between chalk and writing surface for maximum visibility.

**Westinghouse** research shows that high reflectivity in substitute boards provides less visibility and contrast than that obtained from a board of lower reflectivity. **Dr. M. A. Tinker** of the **University of Minnesota** has determined that a high degree of contrast is a more important factor than the supposed "eye ease" colors . . . that any sacrifice of this high degree of contrast between message and background is considered undesirable.

A thorough examination of the chalkboard question will prove Natural Slate to be easiest to see . . . to budget . . . to adapt to color schemes . . . best attention catcher . . . having longest life . . . best writing qualities. An honest appraisal of these facts will show that Natural Slate was, is and will be the classic chalkboard for classrooms past, present and future.

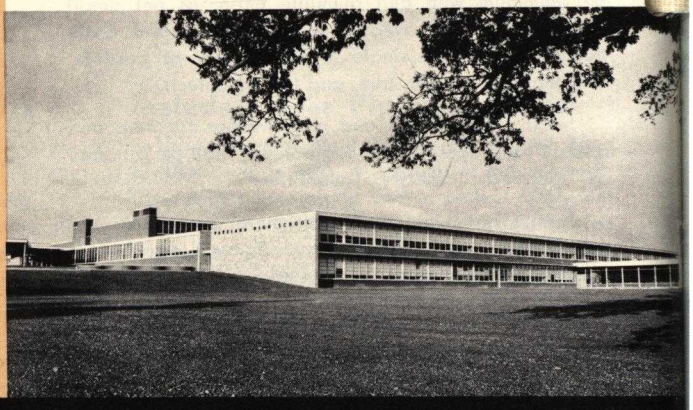


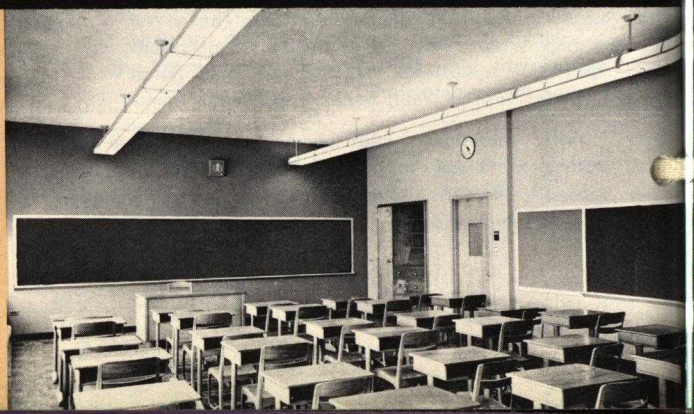


*There are reasons which prompted the choice of slate chalkboards in such exemplary schools as are pictured here.*

ABOVE: Clyde R. Lyon School, Glenville, Ill.
Perkins & Will, Architects-Engineers, Chicago, Ill.

BELOW: Parkland High School, Orefield, Penna.
H. F. Everett & Assoc., Architects-Engineers, Allentown, Pa.



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